US ERA ARCHIVE DOCUMENT

	701	VACI ATION SHEET	CRF # PAGEOF 3/21/70
Same taid	₹:		A B T FW EC R
	SC #	CLICINI CAL RAME	Validator: Date:
Technical?		PP581	RBalcomb 3/21/78
			Test Type:
•			Fish Acute 96 hr. LC ₅₀ : Rainbow Trout
•	ı		
	Pila sidil 7 fatabatika mananininininininin arabin mananan		Test ID.# ES-G

CITATION:

CITATION: Hill, R.W. et al. Determination of the Acute Toxicity of PP581 to Rainbow Trout (Salmo gairdnerii). ICI; No. BL/B/1758. November 1976.

VALIDATION CATEGORY: Supplemental

RESULTS: The acute toxicity of PP581 was determined in Freshwater at 13°C. The toxicant was dissolved in DMSO and it was reported that a level of less than 10 mg/L of DMSO was used in the test vessels. The following mortality figures were determined:

24 hr. LC₅₀=0.155 mg/L 48-hr. LC₅₀=0.09 mg/L 96-hr. LC₅₀=0.051 mg/L

The no effect level was determined to be 0.015 mg/L.

<u>VALIDATION CATEGORY RATIONALE</u>: See preceding test ES-F

REPAIRABILITY: See preceding test ES-F.

nominal used even though measured data was available

Additional Comments

The exposure concentrations (measured and nominal) and survival:

Survivors 0 0 10 10 10 10 10 96-hr Nominal .068 .047 .033 0.22 0.15 0.10 .022 .015 .010 0.182 0.125 0.103 .055 .029 .023 Mean .0215 .0110 .0092 Measured

Ten fish were used per concentration level.

2. A flow-thru system was utilized. The LC₅₀'s were determined via a geometric mean survival period method:

GMSP= exp
$$\left\{ \sum_{i=1}^{N} \frac{N_i}{(\log e + 1)^{N_1}} \left(\log e + 1 \right)^{N_2} \left(\log e + 1 \right)^{N_2} \right\}$$

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where Ni is number fish which die at time ti and $\sum_{i=1}^{N} \mathcal{N}_{i}$ is the total fish in the test. There total is ten.

- 3. Control tests were reported run but no survivorship information is given.
- 4. The lowest recorded Oxygen level was 87% of saturated, the pH range was 7.6-7.8.
- Toxic symptoms included keeling and bleeding gills.
- 6. The fish ranged in weight from 4.9 to 6.8 with mean of 6.0 gm.
- 7. The 96-hr. LC₅₀ calculated by the reviewer using measured concentrations was 0.045 mg/L (Regression Analysis).